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APPLICATION NO	). F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/635,413		08/05/2003	Kazuhiko Yoshida	JCLA11963	3836
23900	7590	03/22/2005		EXAMINER	
	NTS, INC		BINDA, GREGORY JOHN		
4 VENTURE, SUITE 250 IRVINE, CA 92618		ART UNIT	PAPER NUMBER		
,				3679	
				DATE MAIL ED. 02/22/200	•

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/635,413	YOSHIDA ET AL.					
♥ Office Action Summary	Examiner	Art Unit					
	Greg Binda	3679					
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet	with the correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a repleted in the provided for reply specified above, the maximum statutory period for reply within the set or extended period for reply will, by status Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may ply within the statutory minimum of t d will apply and will expire SIX (6) M te, cause the application to become	a reply be timely filed  hirty (30) days will be considered timely.  DNTHS from the mailing date of this communication.  ABANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 24 I	February 2005.						
	· · · · · · · · · · · · · · · · · · ·						
3) Since this application is in condition for allowa	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is						
closed in accordance with the practice under	Ex parte Quayle, 1935 C	.D. 11, 453 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1,3-8,10-14 and 17</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1,3-8,10-14 and 17</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/	or election requirement.						
Application Papers							
9) The specification is objected to by the Examin	ier.						
10)⊠ The drawing(s) filed on <u>various</u> is/are: a)☐ a	ccepted or b)⊠ objected	to by the Examiner.					
Applicant may not request that any objection to the	e drawing(s) be held in abey	ance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct	·	***	,				
11) The oath or declaration is objected to by the E	Examiner. Note the attach	ed Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreig a)⊠ All b)□ Some * c)□ None of:	n priority under 35 U.S.C	. § 119(a)-(d) or (f).					
2. Certified copies of the priority documer		<del></del>					
3. Copies of the certified copies of the pri	-	en received in this National Stage					
application from the International Burea	• • • • • • • • • • • • • • • • • • • •	at appointed					
* See the attached detailed Office action for a lis	or the certified copies no	u receiveu.					
Attachment(s)  1) Notice of References Cited (PTO-892)	4\ \ lateria:	v Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper N	o(s)/Mail Date					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	3) 5) ☐ Notice o 6) ☐ Other: _	f Informal Patent Application (PTO-152)					
S. Patent and Trademark Office	о, <u>—</u> опет		. <del>.</del> ,				

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1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

#### Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on Feb 24, 2005 has been entered.

## Drawings

3. The drawings are objected to because reference numeral 13 is used to identify a conventional outer joint member in Figs. 5 & 6 and reused to identify a modification of the outer joint member in Figs. 1 & 2. Likewise, reference numeral 26 is used to identify a conventional mouth portion in Figs. 5 & 6 and reused to identify a modification of the mouth portion in Figs. 1 & 2. Such usage is proscribed. See MPEP § 608.02(e).

Any change to the reference numerals in the drawings must include corresponding changes in the specification.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to 4. the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet,

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even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

### Claim Objections

- 5. Claims 4, 5 & 12 are objected to because:
  - a. Claim 4, line 4, the word "formed" is misspelled.
  - b. Claim 5 is a duplicate of claim 4.
  - c. Claim 12 is a duplicate of claim 11.

## Claim Rejections - 35 USC § 103

6. Claims 1, 3-8, 10-14 & 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art in view of Yoshida et al, US 6,390,924 (Yoshida). The admitted prior art at Figs. 5 & 6 shows a constant velocity joint 3b in a wheel bearing device comprising an outer joint member 3 having all the limitations of the claims except an induction hardened area formed

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locally in an area in the bottom portion of the mouth portion 26. In col. 4, lines 28-30; col. 6, lines 40-44 and col. 14, lines 1-17, Yoshida teaches forming an induction hardened area locally in an area in the bottom portion 1C1 of the mouth portion 1C of an outer joint member of a constant velocity joint in order to provide the joint with improved fatigue strength. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the constant velocity joint of the admitted prior art by forming an induction hardened area locally in an area in the bottom portion of the mouth portion of the outer joint member in order to improve the joint's fatigue strength as taught by Yoshida

Additionally, with regard to claims 7 & 17, the admitted prior at Figs. 5 & 6 shows an induction hardened area A in the base portion 31, but the depth of the area A is not expressly disclosed as being set to 3mm or less. However, it would have been obvious to one of ordinary skill in the art to design the constant velocity joint so that the hardened portion is set to 3mm or less, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

#### Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Greg Binda whose telephone number is (703) 305-2869. The examiner can normally be reached on M-F 9:30 am to 7:00 pm with alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel P. Stodola can be reached on (703) 308-2686. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Greg Binda Primary Examiner

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